

## TECHNICAL DATA SHEET



### DESCRIPTION

**ProPoxy UVR** is a two component, 100% solids, clear epoxy coating with enhanced UV resistance, flow, leveling, and air release for higher build decorative applications. With special UV inhibition, this epoxy binder is less prone to ambering and degradation when subjected to intermittent UV exposure or other intense indoor lighting. It has been optimized to reduce potential "outgassing" bubbles commonly associated with higher build decorative (e.g. metallic) coating and self-level resurfacing systems. When combined with **ProPoxy LWT** (Long Working Time) Hardener, color-streaming with multiple light-reactive or metallic pigments is done with ease in our uniquely stylish **ProLumina** systems, leading to a showroom quality of high gloss and excellent durability. Also, ideal for use as a build or grout/topcoat over colored quartz or flake applications, or in any high build system where product clarity is of utmost importance.

### FEATURES & BENEFITS

- ◆ 100% Solids, Zero VOC
- ◆ Low Odor
- ◆ Non-Blushing
- ◆ Excellent Resistance to UV exposure
- ◆ Excellent Clarity
- ◆ High Gloss & Color Stability
- ◆ 45+ Minutes Working Time When Combined with Long Working Time (LWT) Hardener
- ◆ Low Viscosity
- ◆ Resistance to Outgassing Bubbles
- ◆ Hard-Cure – Screened or Sanded Next Day
- ◆ 2 Hardeners – Standard & LWT
- ◆ Universal Colorants – 6 gal. Resin Pails for in the field pigment dosing
- ◆ **MicrobeBLOK** Antimicrobial
- ◆ Meets USDA & FDA Standards
- ◆ OSHA and ADA Compliant
- ◆ Complies with VOC Regulations by the EPA for AIM Coatings

### COLORS

See "Color Guide"

### TYPICAL USES

**ProPoxy UVR** is designed for high profile systems such as seamless flooring with light-reactive (metallic) pigments, as well as decorative flake and quartz applications. Its enhanced air-release properties also make it an excellent choice for self-level epoxy systems like our **ProShield SL** or **DecoStone LX**.

### PACKAGING

- ◆ 5 gallon white pail - Resin
- ◆ 5 gallon black pail - Hardener
- ◆ 1 gallon white pail - Resin
- ◆ 1 gallon black pail - Hardener

### STORAGE

Materials should be stored indoors between 60°F (16°C) and 90°F (32°C).

### SHELF LIFE

One (1) year from date of manufacture.

### LIMITATIONS

- ◆ This product is best suited for application in temperatures between 45°F and 90°F, and relative humidities between 30%-90%.
- ◆ Material provided in pails should be thoroughly mixed to redistribute any settlement that may have occurred during shipping or storage.
- ◆ Do not mix more material than can be applied within the specified pot life – see "Physical Characteristics" chart.

### OPTIONAL

**ProThickener** (aerosil thickener)

**ProColor Universal Colorants**

(on-site pigmentation)

**ProMetallic** (light reactive pigments)

**MicrobeBLOK** (anti-microbial)

### PRODUCTS GUIDE

1. **ProPoxy UVR Resin** is a U-V resistant **3:1** epoxy to be used for decorative, high-build, self-leveling intermediate and grout/top coats.
2. **ProPoxy UVR Cove Resin** is a thickened and versatile **3:1** epoxy to be used as a vertical binder when mixed with colored quartz aggregates. Can also be used as a grout coat over decorative epoxy troweled mortars.
3. **ProPoxy S-Hardener** is a versatile epoxy hardener that balances longer working time with an 8 hour cure (70°F) when combined with **ProPoxy Resins**.

5. **ProPoxy LWT-Hardener** is a long working time hardener when combined with **ProPoxy UVR** resin. It is designed specifically for **ProLumina** systems requiring extended "open" time.

### COVERAGE RATE

A gallon of **ProPoxy UVR** will cover in the following manner, with a **\*standard spread rate**: 6-20 mils or 80-267 s.f. per gallon.

\*Application of body and topcoats are variable in thickness depending upon condition of substrate and type of system.

### PRELIMINARY FLOOR INSPECTIONS

**CHECK THE CONCRETE:** Concrete must be structurally sound and free of curing membrane, paint or other sealer. If you suspect that the concrete has been previously sealed, call **ProREZ** technical support for further instructions.

**CHECK FOR MOISTURE:** Concrete must be dry before application of **ProREZ** floor coating materials. Concrete moisture testing must occur. Calcium chloride testing or in-situ relative humidity testing is recommended. Test methods can be purchased at [www.astm.org](http://www.astm.org), see ASTM F1869-11 or F2170-11, respectively or follow manufacturer's instructions. Readings must be below 6lbs/1,000s.f./24hrs (ASTM F1869-11) or 82% internal relative humidity (F2170-11).

\***Note:** Although testing is critical, it is not a guarantee against future problems. This is especially true if there is no vapor barrier or the vapor barrier is not functioning properly and/or you suspect you may have concrete contamination from oils, chemical spills or excessive soluble salts.

### CHECK THE TEMPERATURE AND HUMIDITY:

Floor temperature and materials should be between 55°F and 85°F. Humidity must be less than 95%. DO NOT coat unless floor temperature is more than five degrees over the dew point.

### JOINT GUIDELINES

Depending on preference, joints may or may not be filled. If the joints are filled, nonmoving joints, i.e. contraction or control joints can be treated by using **ProPoxy** with **ProThickener**, or by using **ProMender HF**, a hard-and-fast urea filler for **Fast-Track** applications.

**Note:** Coating applied over filled joints may crack if there is concrete movement.

MIXING INSTRUCTIONS

Application Equipment:

- ◆ Personal Protective Equipment (PPE) & clothing per SDS (Safety Data Sheet)
- ◆ Jiffy® Mixer Blade (ES Model)
- ◆ Clean Mixing Container
- ◆ Low Speed/High Torque Power Drill
- ◆ Shed-Resistant Roller Cover - 3/8" Nap
- ◆ Application Squeegee

Mix ratio for **ProPoxy UVR** is **3 parts Resin to 1 part Hardener** by volume. **8-16 oz.** of **ProColor Universal Colorant** is recommended **per gallon** of material. (See product label.) When field pigmenting, it should be added and mixed in homogenously to the resin prior to adding the hardener. When combining, be sure to add the hardener into the clean mixing container first. Then add the resin (clear or pigmented) scraping out the container. Always pour into the **center** of the mixing container. Mix the components thoroughly for **1-2 minutes** with a Jiffler ES style mix blade. Mix only enough material at one time that can be applied without exceeding the pot life.

CLEANING GUIDELINES & MAINTENANCE

Allow floor coating to cure at least 3 days before cleaning by mechanical means (e.g., sweeper, scrubber, disc machine).

CARE

Proper maintenance will increase the service life and help maintain the appearance of your new **ProREZ** floor coating system. This product is considered to be a low maintenance coating system, however, certain textures and service environments require specific procedures. SEE "CLEANING GUIDELINES" for more information.

CAUTION

Avoid scratching or gouging the surface. All floor coatings will scratch if heavy or sharp objects are dragged across the surface.

Do not drop heavy or pointed items on the floor as this may cause chipping or concrete pop-outs in the case of a weak substrate cap.

Rubber tires can permanently stain the floor coating from plasticizer migration. In warehouse & industrial settings, the use of non-marking tires is highly recommended to prevent discoloration. Rubber burns from quick stops and starts can heat the coating to its softening temperature, causing permanent marking.

REPAIRS

Repair gouges or scratches or chip outs as soon as possible to prevent moisture or chemical contamination.

**Warranties:** Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller's sole liability and buyer's exclusive remedy for breach of any warranty as expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product.

DISPOSAL

Dispose in accordance with federal, state and local regulations.

TECHNICAL SUPPORT

For any application questions, please call **ProREZ** technical support at **877.511.3456**.

SDS

PLEASE SEE SAFETY DATA SHEET (SDS) FOR SAFETY AND PRECAUTIONS. USE PRODUCT AS DIRECTED. **KEEP OUT OF THE REACH OF CHILDREN.**

PHYSICAL CHARACTERISTICS	
Percentage solids by weight	100%
Mix Ratio (by volume)	3 parts Resin & 1 part Hardener
Viscosity at 70°F	500 cPs
Pot Life (100 gms @ 70°F)	30 mins ( <b>LWT-Hardener</b> ), 20 mins ( <b>S-Hardener</b> )
Cure Time (@70°F)	<b>ProPoxy LWT-Hardener:</b> 18 hrs foot traffic <b>ProPoxy S-Hardener:</b> 8-10 hrs foot traffic
Working Time at 70°F	45 mins ( <b>LWT-Hardener</b> ), 25 mins ( <b>S-Hardener</b> )
Recoat Window (@70°F)	Maximum of 36 hrs
Coverage Rate	10 mils, 160 sq ft/US gallon. Can be applied to 6 mils, 267 sq ft/US gallon
Volatile Organic Compound	(VOC) nil

PHYSICAL PROPERTY	TEST METHOD	RESULT
Hardness (Shore D)	ASTM D-2240	70-80D
Compressive Strength	ASTM D-695	13,100 psi
Tensile Strength	ASTM D-638	5,780 psi
Tensile Elongation	ASTM D-638	7.50%
Adhesion to Concrete	ASTM D-7234	>400 psi, substrate fails
Impact Resistance	ASTM D-2794	>160 in/lb
Water Absorption	ASTM D-570	<0.1%
Flame Spread/NFPA 101 (3 mils over cement board)	ASTM E-684	Class 1
Abrasion Resistance CS17 Wheel 1000 GM Load 1000 Cycles	ASTM D-4060	30 mg loss
Coefficient of Friction (James Friction Tester) Wet Dry	ASTM D-2047	0.7 (smooth) 0.8 (smooth)
Heat Resistance Limitation Thermal Cycling (5 min interval) (10 min interval) Continuous Heat	Hot Oil (200°F) to Ice Water (25°F) Hot Oil (200°F) to Ice Water (25°F) 1 hr 160°F Hot Oil submersion	20 cycles – no effect 20 cycles – no effect No effects

Other Tests: Mortar Mix		
Compressive Strength	ASTM C-579	15,000 psi
Tensile Strength	ASTM C-307	2,400 psi
Flexural Strength	ASTM C-580	4,000 psi
Flexural Modulus of Elasticity	ASTM C-580	1.0 × 10 <sup>6</sup>
Thermal Coefficient of Linear Expansion	ASTM C-531	1.1 × 10 <sup>-5</sup> in./in.°C
Water Absorption	ASTM C-413	<0.1%

**Note on Technical Data:** Test data shown for physical properties are typical values obtained under laboratory conditions. Some variations could result under dynamic conditions in the field such as temperature, humidity and type or condition of substrate. Complies with LEED IEQ Credit 4.1. Once cured, this product is inert (chemically inactive) so it is safe to discard and is safe to use in areas subject to inspection for food safety.